ATTY, DOCKET NO. APPLICATION NUMBER FORMEPTQ-1449 (Modified) 10/689.470 TH-1599 04 (US) 0 加切式 provided APPLICANT BY APPLICANT Bass et al **GROUP ART UNIT** FILING DATE (Use several sheets if necessary) 10/20/03 3672 REFERENCE DESIGNATION U.S. PATENT DOCUMENTS Filing Date if Examiner **Subclass** Appropriate Date **Patentee** Class Document No. Initial 7/16/91 Wellington et al. 166 250 5.031.697 AA 6,089,322 7/18/00 Kelley et al. 166 370 AB AC 6,429,784 B1 8/6/02 Beique et al. 340 853.2 10/14/03 Vinegar et al. 324 355 AD 6,633,164 B2 369 12/16/03 Bass et al. 166 6,662,875 B2 ΑE 340 853.3 6,420,976 B1 7/16/02 Baggs et al. AF 853.7 8/24/99 Smith et al. 340 5,942,990 AK Hill et al. 340 855.8 6,747,569 B2 6/8/04 LΑ 9/3/02 Rassi et al. 340 854.6 6,445,307 B1 AK 2/19/02 Wei et al. 340 854.9 AL 6,348,876 B1 106 34 2,083,321 6/8/37 Dunn et al. AM 11/19/96 MacLeod et al. 340 854.4 5,576,703 ΑN 340 854.4 2/20/96 AO 5,493,288 Henneuse AP FOREIGN PATENT DOCUMENTS **李州疆**生为2000年 **Translation** Yes Class **Subclass** No Document No. Date Country HO4B 13/02 X 22/7/99 WO AQ 99/37044 E21B 47/12 27/08/03 AR 0 964,134 B1 Εp OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)) Otis Engineering, Field Development, Now Produce Crude with Viscosity no Higher Than This Using Otis ΑU Heavy Crude Lift System DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
PPS	ВА	2003/0056952 A1	3/27/03	Stegemeier et al.	166	250.12	
	BB	2003/0086652 A1	5/8/03	Boudreau et al.	385	49	
	BC	5,467,083	11/14/95	McDonald et al.	340	854.6	
	BD	4,852,648	8/1/89	Akkerman et al.	166	66.4	
	BE	6,633,236 B2	10/14/03	Vinegar et al.	340	854.4	
	BF	2003/0131991 A1	7/17/03	Hartog et al.	166	250.12	
	ВК	6,349,766 B1	2/26/02	Bussear et al.	166	113	
	BL	4,793,414	12/27/88	Nguyen et al.	166	252	
	ВМ	4,771,635	9/20/88	Trevillion	73	155	
	BN	5,396,232	3/7/95	Mathieu et al.	340	854.5	
	во	6,588,505 B2	7/8/03	Beck et al.	166	250.17	
	BP	2002/0017387 A1	2/14/02	Ringgenberg et al.	166	250.17	
	BQ	2001/0002621 A1	6/7/01	Vaynshteyn et al.	166	387	
	BR	5,291,947	3/8/94	Stracke	166	187	
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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate		
DP5	CA	2003/0047317	3/13/03	Powers	166	373			
1	СВ	6,352,109 B1	3/5/02	Buckman, Sr.	166	250.03			
	CC	6,443,228 B1	9/3/02	Aronstam et al.	166	250.11			
	CD	4,350,205	9/21/82	Goldschild et al.	166	375			
	CE	6,464,004 B1	10/15/02	Crawford et al.	166	250.01			
	CF	3,465,273	9/2/69	Brock	336	62			
	CG	6,443,228 B1	9/3/02	Aronstam et al.	166	250.11			
	СН	4,087,781	5/2/78	Grossi et al.	340	18			
	CI	5,995,020	11/30/99	Owens et al.	340	854.9			
	CJ	5,887,657	3/30/99	Bussear et al.	166	336			
	СК	4,648,471	3/10/87	Bordon	175	4.55			
	CL	4,839,644	6/13/89	Safinya et al.	340	854			
	C M	5,130,706	7/14/92	Van Steenwyk	340	854.6			
	CN	5,467,083	11/14/95	McDonald et al.	340	854.6			
	co	5,574,374	11/12/96	Thompson et al.	324	338			
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DP5	AA	3,793,632	2/19/74	Still	340	18		
	AB	4,087,781	5/2/78	Grossi et al.	340	18		
	AC	4,630,243	12/16/86	MacLeod	367	82		
	AD	4,739,325	4/19/88	MacLeod	340	854		
	AE	5,191,326	3/2/93	Montgomery	340	855.5		
	AF	5,331,318	7/19/94	Montgomery	340	855.4		
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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
DPS	AA	525,663	9/4/1894	Mottinger, N. W.			
1	AB	2,917,004	12/15/59	Davis et al.			
	AC	3,083,771	4/2/63	Chapman, J.B.			•

Wakefield, Jr.

Bostock et al.

Blackledge

Kisling, III

Fitzpatrick

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DP5	AL	028,296 A2 + Abst.	5/13/81	EP	E21B 47	12		×
\	AM	295,178	12/14/88	EP	E21B 47	12	×	
	AN	339,825	11/2/89	EP .	E21B 47	12	X	
	AO	492,856 A2	7/1/92	EP	H04B1	62	X	
	AP	681,090 A2	11/8/95	EP	E21B 47	18	X	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT/PAGES, ETC.)

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ATTY. DOCKET NO. TH-1599 04 (US)

APPLICATION NUMBER
10/689,470

APPLICANT
Bass et al

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DP5	AA	4,068,717	1/17/78	Needham	166	272	
<del>.,</del> (	AB	4,295,795	10/20/81	Gass et al.	417	111	
	AC	4,393,485	7/12/83	Redden	367	25	
	AD	4,576,231	3/18/86	Dowling et al.	166	248	,
	AE	4,578,675	3/25/86	MacLeod	340	855	
	AF	4,596,516	6/24/86	Scott et al.	417	58	
<del>-</del> -	ĀĞ	4,662,437	5/5/87	Renfro	166	65.1	
	AH	4,681,164	7/21/87	Stacks	166	304	
	Al	4,709,234	11/24/87	Forehand et al.	340	856	
	AJ	4,738,313	4/19/88	McKee	166	372	
	AK	4,886,114	12/12/89	Perkins et al.	166	65.1	
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7000	AL	721.053 A1	7/10/96	EP	E21B	12	X

		Document No.	Date	Country	Class	Subclass	<u>Translation</u> Yes No
DPS	AL	721,053 A1	7/10/96	EP	E21B 47	12	×
1	AM	919,696 A2	6/2/99	EP	E21B 47	12	X
	AN	930,518 A2	7/21/99	EP	G01V3	12	×
	AO	972,909 A2	1/19/00	EP .	E21B 44	00	×
	AP	641,916 A2	3/8/95	EP	E21B 33	124	X

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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ATTY, DOCKET NO. **APPLICATION NUMBER** FORM PTO-1449 (Modified) 10/689,470 TH-1599 04 (US) **APPLICANT** LIST OF INFORMATION PROVIDED BY APPLICANT Bass et al **GROUP ART UNIT** FILING DATE (Use several sheets if necessary) 10/20/03 3672 ing geographic ages were U.S. PATENT DOCUMENTS REFERENCE DESIGNATION Filing Date if Examiner Subclass **Appropriate** Document No. Date **Patentee** Class Initial 340 853 Veneruso AA 2/13/90 4.901.069 DP5 Wellington et al. 73 155 11/27/90 AB 4,972,704 166 66.4 Perkins et al. 1/1/91 AC 4,981,173 367 13 3/19/91 Woodward AD 5,001,675 More et al. AE 4/16/91 340 854 5.008,664 AF 7/28/92 Perry et al. 250 269 5,134,285 11/3/92 Dailey et al. 340 853.3 AG 5,160,925 324 347 11/10/92 Jewell AH 5,162,740 137 12/22/92 Boyle et al. 155 ΑI 5,172,717 137 155 1/5/93 Boyle AJ 5,176,164 166 66.4 7/27/93 Pringle et al. AK 5,230,383 Hutchins et al. 436 27 9/21/93 AL 5,246,860 455 73 Shaw AM 10/5/93 5,251,328 FOREIGN PATENT DOCUMENTS 全學基準 蒙古上 **Translation** Yes Class **Subclass** No Date Country Document No. ΕP E21B 00 X 2/21/96 AP 697,500 A2 49 A21C9 04 X AQ 9/18/96 EP 732.053 A1+ Abst. E21B 14 X AR 6/16/99 ΕP 922.835 A3 43 OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) AU DATE CONSIDERED 7/21/95 **EXAMINER** 

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APPLICANT
Bass et al

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
DPS	AA	5,257,663	11/2/93	Pringle et al.	166	66.4	
1	AB	5,267,469	12/7/93	Espinoza	73	40.5	
_	AC	5,278,758	1/11/94	Perry et al.	364	422	
1	AD	5,353,627	10/11/94	Diatschenko et al	73	19.03	
	AE	5,358,035	10/25/94	Grudzinski	166	53	
	AF	5,367,694	11/22/94	Ueno	395	800	
	AG	5,394,141	2/28/95	Soulier	340	854.4	
	AH	5,425,425	6/20/95	Bankson et al.	166	377	
	AI	5,447,201	9/5/95	Mohn	166	375	
<del>   </del>	AJ	5,458,200	10/17/95	Lagerlef et al.	166	372	
+	AK	5,473,321	12/5/95	Goodman et al.	340	854.9	
1	AL	5,531,270	7/2/96	Fletcher et al.	166	53	

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DP5	AO	999,341 A2	5/10/00	EP	E21B 33	124	Х
DP5	AP	2,677,134	12/10/92	FR	E21B 47	12	Х
DP5	AQ	2,325,949 A	12/9/98	GB	E21B 43	12	X

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095	AA	5,561,245	10/1/96	Georgi et al.	73	152.02	
<u> </u>	AB	5,587,707	12/24/96	Dickie et al.	340	870.09	
	AC	5,592,438	1/7/97	Rorden et al.	367	83	
	AD	5,662,165	9/2/97	Tubel et al.	166	250.01	
	AE	5,723,781	3/3/98	Pruett et al.	73	152.18	
	AF	5,730,219	3/24/98	Tubel et al.	66	250.01	
	AG	5,745,047	4/28/98	Van Gisbergen et al.	340	853.1	
1	AH	5,782,261	7/21/98	Becker et al.	137	155	
+	AI	5,797,453	8/25/98	Hisaw	166	117.5	
	AJ	5,881,807	3/16/99	Boe et al.	166	100	
	AK	5,896,924	4/27/99	Carmody et al.	166	53	
<del></del>	AL	5,934,371	8/10/99	Bussear et al.	166	53	
	AM	5,937,945	8/17/99	Bussear et al.	166	250.15	

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		Document No.	Date	Country	Class	Subclass	Yes No	
QP5	AU	2,338,253 A	12/15/99	GB	E21B 47	12	X	
1	AV	2,327,695 A	2/3/99	GB	E21B 43	12	X	
	AW	01/20126 A2	3/22/01	wo	E21B 43	12	X	
	AX	00/04275	1/27/00	wo	E21B 47	01	X	

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<sup>2.</sup> This is not a representation that a search has been made.

Sheet 11 of 13 FORM PTO-1449 (Modified) ATTY. DOCKET NO. **APPLICATION NUMBER** 10/689,470 TH-1599 04 (US) LIST OF INFORMATION PROVIDED **APPLICANT** BY APPLICANT Bass et al **GROUP ART UNIT** FILING DATE (Use several sheets if necessary) 10/20/03 3672 REFERENCE DESIGNATION U.S. PATIENT DOCUMENTS · 是一个中心人会理想的 Filing Date if Examiner Initial Document No. Date **Patentee** Class Subclass Appropriate AA 8/24/99 Tubel 166 313 5,941,307 73 9/21/99 Mullins 52.18 AB 5,955,666 9/28/99 Khan et al. 330 149 AC 5.959.499 166 313 AD 10/5/99 Tubel et al. 5,960,883 10/5/99 Fukuchi 330 149 ΑE 5,963,090 10/26/99 Huber et al. 166 297 AF 5,971,072 11/2/99 Tubel et al. 166 250.15 AG 5,975,204 1/4/00 702 AH Tubel 6,012.015 1/4/00 Bilden et al. 702 12 ΑĪ 6,012,016 137 155 6/6/00 Pringle AJ 6.070.608 166 118 9/26/00 Oneal ΑK 6,123,148 166 278 AL 11/21/00 Mullen et al. 6,148,915 166 250.15 AM 2/27/01 Neuroth et al. 6,192,983 B1 367 35 3/27/01 Rorden et al. AN 6,208,586 B1 11/26/02 Carmody et al. 166 53 AO 6,484,800 B2 FOREIGN PATENT DOCUMENTS 建 **Translation Date Subclass** Yes Document No. Country Class No E21B 06 X AR 6/29/00 WO 00/37770 37 E21B 12  $\overline{\mathbf{X}}$ AS 8/2/01 WO 01/55555 A1 47 OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) ΑU DATE CONSIDERED 7/21/05 **EXAMINER** 

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

2. This is not a representation that a search has been made.

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FORM PTO-1449 (Modified)  LIST OF INFORMATION PROVIDED BY APPLICANT  (Use several sheets if necessary)				ATTY. DOCKET NO. TH-1599 04 (US)  APPLICATION NUMBER 10/689,470  APPLICANT Bass et al					
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